WHAT IS CLAIMED IS:

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seconds, 20 seconds, 30 seconds, 1 minute.

1	1. A cache memory configured to store media data to be output as a
2	media stream, the cache memory comprising:
3	a session data file configured to store properties of the media stream, wherein
4	the properties are selected from the class: encoding scheme and duration;
5	a plurality of data object files, each data object file individually and directly
6	accessible by a file system, each data object file comprising a data object configured to store
7	a portion of the media data.
1	2. The cache memory of claim 1
2	wherein a data object comprises an object meta-data portion and a plurality of
3	data chunks,
3 4 5 6	wherein the object meta-data portion is configured to store a number
5	representing a total number of data chunks in the plurality of data chunks, and
6	wherein each data chunk of the plurality data chunks are configured to store a
7	subset of the portion the media data.
1	3. The cache memory of claim 2
2	wherein each data chunk comprises a chunk meta-data portion, a packet meta-
3	data portion, and a plurality of packet payloads,
4	wherein the chunk meta-data portion is configured to store a number
5	representing a total number of packet payloads in the plurality of packet payloads,
6	wherein the packet meta-data portion is configured to store a presentation time
7	for each packet payload, and
8	wherein each of the plurality of packet payloads are configured to store only a
9	portion of the subset of the portion of the media data.
1	4. The cache memory of claim 2 wherein each data object has an
2	accordated approximation time

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associated duration time selected from the group: approximately: 5 seconds, 10 seconds, 15

The cache memory of claim 4 wherein each data object has an

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- The cache memory of claim 2 wherein the object meta-data portion is also configured to store data selected from the group: file format version, beginning presentation time, ending presentation time, file size.
- The cache memory of claim 3 wherein the data chunk meta-data portion is also configured to store file offsets to adjacent data chunks in the plurality of data chunks
- 8. A method for storing in a cache memory, media data to be output as streaming media, the method comprising:

storing a first plurality of data objects in the cache memory, the first plurality of data objects configured to store a first plurality of data associated with a first encoding of the media data, wherein each data object of the first plurality of data objects is directly addressable in the cache memory via an associated object handle, and wherein each data object of the first plurality of data objects is configured to store a portion of data from the first plurality of data; and

storing a second plurality of data objects in the cache memory, the second plurality of data objects configured to store a second plurality of data associated with a second encoding of the media data, wherein each data object of the second plurality of data objects is directly addressable in the cache memory via an associated object handle, and wherein each data object of the second plurality of data objects is configured to store a portion of data from the second plurality of data.

9. The method of claim 8 wherein the first encoding of the media data and the second encoding of the media data have a different encoding property selected from the class; target stream bit rates, target stream bit depth, thinning parameters.

10. The method of claim 9

wherein a data object of the first plurality of data objects comprises an object meta-data portion and a plurality of data chunks,

wherein the data object is configured to store a first portion of data from the first plurality of data

wherein the object meta-data portion is configured to store a number representing a total number of data chunks in the plurality of data chunks, and

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wherein the plurality of data chunks are configured to store a subportion of data from the first portion of data.

11 The method of claim 10

wherein a data chunk of the plurality of data chunks comprises a chunk metadata portion, packet meta-data portion, and a plurality of packet payloads.

wherein the data chunk is configured to store a subportion of data from the portion of data.

wherein the chunk meta-data are configured to store a number representing the total number of packet payloads in the plurality of packet payloads,

wherein the packet meta-data portion is configured to store a presentation time for each packet payload, and

wherein the plurality of packet payloads are configured to store a smaller subportion of data from the portion of data.

- 12. The method of claim 10 wherein the data chunk has a presentation time different from a presentation time for other data chunks in the plurality of data chunks.
- 13 The method of claim 12 wherein the smaller subportion of data has an associated duration of less than or equal to approximately a time selected from the group: 10 seconds, 30 seconds, 1 minute.
- 14 The method of claim 10 wherein the first portion of data are associated with a first logical segment of the media data.
- 15. A computer program product for a computer system including a processor and a memory includes:

code that directs the processor to store a first plurality of data associated with an encoding of a first source media in a first plurality of data objects in the memory, wherein each data object of the first plurality of data objects is addressable in the memory by the processor via an associated first object filename, and wherein each data object of the first plurality of data objects is configured to store a portion of data from the first plurality of data; and

code that directs the processor to store a second plurality of data associated with an encoding of a second source media in a second plurality of data objects in the memory, wherein each data object of the second plurality of data objects is addressable in the

12 memory by the processor via an associated second object filename, and wherein each data 13 object of the second plurality of data objects is configured to store a portion of data from the 14 second plurality of data. 15 wherein the codes reside on a tangible media. The computer program product of claim 15 1 16. 2 wherein a data object of the first plurality of data objects comprises an object 3 meta-data portion and a plurality of data chunks. 4 wherein code that directs the processor to store a first plurality of data 5 comprises: 6 code that directs the processor to store a subset of data from the portion 7 of data from the first plurality of data into the plurality of data chunks; and 3 3 4 5 5 6 code that directs the processor to store a number representing a total number of data chunks in the plurality of data chunks into the object meta-data portion. 17 The computer program product of claim 16 wherein a data chunk of the plurality of data chunks comprises a chunk metadata portion, packet meta-data portion, and a plurality of packet payloads, wherein code that directs the processor to store the subset of data comprises: code that directs the processor to store a smaller subset of data from the portion of data from first plurality of data into the plurality of packet payloads; 7 code that directs the processor to store a number representing a total 8 number of packet payloads in the plurality of packet payloads into the chunk meta-data 9 portion; and 10 code that directs the processor to store a presentation time for each 11 packet payload in the packet meta-data portion. 1 18 The computer program product of claim 17 wherein the plurality of 2 data chunks each have an associated duration of less than or equal to approximately a time 3 selected from the group: 10 seconds, 30 seconds, 1 minute. 1 19. The computer program product of claim 16 wherein the plurality of 2 data chunks each have a size less than or equal to approximately a size selected from the 3 group: 64 Kbytes, 128 Kbytes, 512 Kbytes, 1 Mbyte.

The computer program product of claim 17

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wherein the object meta-data portion stores a number representing a total

meta-data portion and a plurality of data chunks.

number of data chunks in the plurality of data chunks, and

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wherein each data chunk of the plurality data chunks stores a subset of the portion the payload data.

23. The cache memory of claim 22

wherein a data chunk from the plurality of data chunks comprises a chunk meta-data portion, a packet meta-data portion, and a plurality of packet payloads, wherein the chunk meta-data portion stores a number representing a total

number of packet payloads in the plurality of packet payloads,

wherein the packet meta-data portion stores a presentation time for each
packet payload, and

wherein each of the plurality of packet payloads stores only a portion of the subset of the portion of the payload data.

- 24. The cache memory of claim 21 wherein each data object is associated with a presentation time.
- 25. The cache memory of claim 21 wherein the streaming media data are in a format selected from the group: Microsoft Media Streaming compatible, Real Time Streaming Protocol –compatible, RealSystem compatible, QuickTime-compatible.
- 26. The cache memory of claim 21 wherein code that directs the processor to receive streaming media data from a streaming media server comprises code that directs a processor to receive streaming media data from the streaming media server on a port selected from the group: 554, 2001, 1755, 80.
- The cache memory of claim 21 wherein object handle comprises an
 object filename.